

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/07/2020 04/07/2020	Zach Jojola

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_ST0012_01_s_2013_6				
Comment Code					
Inspector Comment					
Sacramento Maintenance Yard has copies of their O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_ST0012_01_s_2013_7				
Comment Code					
Inspector Comment					
Sacramento Maintenance Yard has a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_ST0012_01_s_2013_8				
Comment Code					
Inspector Comment					
Sacramento Maintenance Yard has a written flood response plan and flood fight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/07/2020 04/07/2020	Zach Jojola

LM Start	0.02	Rating **	A/W	Issue No.	26	
LM End	0.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590766 °	38.590766 °	
				-121.665560 °	-121.665560 °	
DWR ID	17834					
Comment Code						
Inspector Comment						
DS_ID:17834 FS_ID:44903 EP_NO: 10130 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 01/08/2019 Received updated permit information for this crossing from D. Biswas with the CVFPB. The structure description has been updated with the correct abandonment permit information. (O. Magana - DWR UCIP) 05/02/2017 CVFPB Letter sent April 12, 2012 regarding Permit #10130 - Internal Inspections of Pipes Crossing State Plan of Flood Control Levee. Permit No. 10130 previously referenced in UCIP record was removed--permit does not reference 36-inch pipe. (O. Magana - DWR UCIP) 04/12/2017 Mud/debris on WS removed by JK, RF. (C. Lund - DWR Sacramento Yard) 05/05/2015 Removed debris from the outlet. (C. Lund - DWR Sacramento Yard) 09/19/2012 Minor debris blocking flap gate. Debris/log needs to be removed from the outlet. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 18 feet below the crown. Flap gate is located on the waterside (WS) end. (no permit was found authorizing 36-inch pipe [pipe is referenced in O&M Manual, Station 271+54]; 36-inch was authorized for abandonment under Permit No. 12789-1, 2018 - City of Davis) [Additional Reference(s): USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 271+54)] FS Date: 5/5/2015 8:02:11 AM						

Photo 1 of 3 : UCIP_SP_2020_44903_22882.jpg



Landside view- beyond grass area see drainage inlet

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/07/2020 04/07/2020	Zach Jojola

LM Start	0.02	Rating **	A/W	Issue No.	26 (cont)
LM End	0.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.590766 °	38.590766 °
				-121.665560 °	-121.665560 °
DWR ID	17834				

Photo 2 of 3 : UCIP_SP_2020_44903_22881.jpg



Waterside view- general view

LM Start	0.02	Rating **	A/W	Issue No.	26 (cont)
LM End	0.02	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_44903_22880.jpg



Waterside overview. Notice waterway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/07/2020 04/07/2020	Zach Jojola

LM Start	0.03	Rating **	A/W	Issue No.	27	
LM End	0.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590771 °	38.590771 °	
				-121.665860 °	-121.665860 °	
DWR ID	17613					
Comment Code						
Inspector Comment						
DS_ID:17613 FS_ID:44904 EP_NO: 10309 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 09/19/2012 Abandoned in place. CMP filled with concrete. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee, 16.5 feet below the crown. Flap gate is located on the waterside (WS) end. Manhole and grate are located on the landside (LS) toe. (30-inch pipe [HLM 0.01] authorized under Automatic Board Order (ABO) issued as Permit No. 10309, 1974 - City of Davis). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 270+70)] FS Date: 5/5/2015 8:02:49 AM						

LM Start	0.03	Rating **	A/W	Issue No.	27 (cont)
LM End	0.03	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_44904_22885.jpg



Waterside view- CMP grouted with concrete.

Photo 2 of 3 : UCIP_SP_2020_44904_22884.jpg



Waterside view- CMP grouted with concrete (closer view)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/07/2020 04/07/2020	Zach Jojola

LM Start	0.03	Rating **	A/W	Issue No.	27 (cont)
LM End	0.03	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.590771 °	38.590771 °
				-121.665860 °	-121.665860 °
DWR ID	17613				

Photo 3 of 3 : UCIP_SP_2020_44904_22886.jpg



Landside overview- pumping plant not related with this crossing.

LM Start	0.69	Rating **	M	Issue No.	21
LM End	1.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.590529 °	38.590431 °
				-121.678022 °	-121.683842 °
DWR ID	DWR_ST0012_01_s _ 2020_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.69	Rating **	M	Issue No.	22
LM End	1.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.590529 °	38.590431 °
				-121.678027 °	-121.683842 °
DWR ID	DWR_ST0012_01_s _ 2020_22				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Sacramento Maintenance Yard Willow Slough Bypass

Landside view- pipe and headwall closer view

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

Sacramento Maintenance Yard Willow Slough Bypass

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Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.52	Rating **	A/W	Issue No.	30 (cont)	
LM End	1.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.590340 °		38.590340 °
				-121.693360 °		-121.693360 °
DWR ID	17623					

Photo 2 of 3 : UCIP_SP_2020_44929_22928.jpg



Waterside view- 20-inch pipe sleeved into 30-inch pipe

LM Start	1.52	Rating **	A/W	Issue No.	30 (cont)
LM End	1.52	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_44929_22931.jpg



Waterside overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Willow Slough Bypass

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Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/07/2020 04/07/2020	Zach Jojola

LM Start	2.01	Rating **	A/W	Issue No.	31 (cont)
LM End	2.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.590390 °	38.590390 °
				-121.702470 °	-121.702470 °
DWR ID	17619				

Photo 3 of 3 : UCIP_SP_2020_44937_22948.jpg



Waterside view- concrete manhole.

LM Start	2.36	Rating **	C	Issue No.	18
LM End	2.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.590434 °	38.590434 °
				-121.708937 °	-121.708937 °
DWR ID	DWR_ST0012_01_s_ 2019_18				
Comment Code					
DE : Debris					
Inspector Comment					
A mattress on the waterside slope needs removal.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/07/2020 04/07/2020	Zach Jojola

LM Start	2.92	Rating **	M	Issue No.	32	
LM End	2.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590580 °	38.590580 °	
				-121.719220 °	-121.719220 °	
DWR ID	17620					
Comment Code						
Inspector Comment						
DS_ID:17620 FS_ID:55422 EP_NO: 10311 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/01/2019 Received information from Vincent Rodriguez - FMO that this pipe was lined using the CIPP method on April 18, 2019. Removed Urgent status and will follow up with inspection photo. (O.Yakimov - DWR UCIP)04/09/2019 Grouted 10-foot into the pipe on the WS. Internal inspection has been completed and it shows major erosion of pipe. Recommend complete removal and replacement. Pipe is in a section of major county road (Road 29). (J. McCabe - DWR Sacramento Yard)04/12/2017 good/clear on LS & WS, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 05/28/2013 Some small vegetation removal is needed on landside of the levee. (DWR Sacramento - C. Lund) 09/19/2012 Vegetation removal on landside of the levee. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 2.95] authorized under Automatic Board Order (ABO) issued as Permit No. 10311 - Ittner and Harlan). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 118+00)] FS Date: 11/1/2019 8:16:07 AM						

LM Start	2.92	Rating **	M	Issue No.	32 (cont)
LM End	2.92	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_55422_22962.jpg



Landside view- inlet structure

Photo 2 of 3 : UCIP_SP_2020_55422_22961.jpg



Landside view- concrete headwall

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/07/2020 04/07/2020	Zach Jojola

LM Start	2.92	Rating **	M	Issue No.	32 (cont)
LM End	2.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.590580 °	38.590580 °
				-121.719220 °	-121.719220 °
DWR ID	17620				

Photo 3 of 3 : UCIP_SP_2020_55422_22960.jpg



Landside view- vegetation around inlet.

LM Start	2.93	Rating **	M	Issue No.	10
LM End	3.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.590572 °	38.590653 °
				-121.719349 °	-121.720714 °
DWR ID	DWR_ST0012_01_s_2015_10				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There appears to be runoff on the landside slope.					

Photo 1 of 1 : SP_2020_ST0012_295_10_20200409_00036.jpg



View of erosion on the landside slope. Spring 2020.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/07/2020 04/07/2020	Zach Jojola

LM Start	3.05	Rating **	M	Issue No.	33	
LM End	3.05	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.590612 °	38.590612 °	
				-121.721689 °	-121.721689 °	
DWR ID	17621					
Comment Code						
Inspector Comment						
DS_ID:17621 FS_ID:55421 EP_NO: 10312 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/01/2019 Received information from Vincent Rodriguez - FMO that this pipe was removed and replaced. Removed Urgent status and will follow up with inspection photo. (O.Yakimov - DWR UCIP)04/09/2019 Internal inspection has been completed and inspection shows major erosion on the WS outlet. Recommend complete removal and replacement. Pipe is in a section of major county road (Road 29). (J. McCabe - DWR Sacramento Yard) 04/12/2017 good/clear on LS & WS, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/19/2012 Depressions on waterside slope of the levee. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 10 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 3.08] authorized under Automatic Board Order (ABO) issued as Permit No. 10312, 1974 - Kelly). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 110+97)] FS Date: 11/1/2019 8:12:10 AM						

LM Start	3.05	Rating **	M	Issue No.	33 (cont)
LM End	3.05	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_55421_22967.jpg



Waterside view- pipe and flap gate.

Photo 2 of 3 : UCIP_SP_2020_55421_22970.jpg



Waterside view- pipe and flap gate (close view).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Willow Slough Bypass

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Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.05	04/07/2020 04/07/2020	Zach Jojola

LM Start	3.86	Rating **	M	Issue No.	24
LM End	5.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.593720 °	38.600019 °	
			-121.734869 °	-121.752600 °	
DWR ID	DWR_ST0012_01_s_2020_24				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	3.86	Rating **	M	Issue No.	25
LM End	5.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.593720 °	38.600025 °	
			-121.734869 °	-121.752964 °	
DWR ID	DWR_ST0012_01_s_2020_25				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	3.88	Rating **	M	Issue No.	20
LM End	3.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.593886 °	38.594355 °	
			-121.734986 °	-121.735409 °	
DWR ID	DWR_ST0012_01_f_2019_20				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Appears to be many sinkholes on the landside slope.					

Photo 1 of 1 : SP_2020_ST0012_295_20_20200228_00007.jpg



View of sinkholes on the landside slope. Fall 2019.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	0.05	Rating **	M	Issue No.	32
LM End	1.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.599051 °	38.592109 °	
			-121.753603 °	-121.734446 °	
DWR ID	DWR_ST0012_02_s_2020_32				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.09	Rating **	M	Issue No.	31
LM End	1.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.599106 °	38.590791 °	
			-121.752756 °	-121.733069 °	
DWR ID	DWR_ST0012_02_s_2020_31				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	0.83	Rating **	A/W	Issue No.	45
LM End	0.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.597813 °	38.597813 °
				-121.739636 °	-121.739636 °
DWR ID	534				
Comment Code					
Inspector Comment					
DS_ID:534 FS_ID:45286 EP_NO: 10327 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 05/24/2013 Flap gate repaired. (DWR Sacramento Yard - C. Lund) 09/20/2012 Flap gate is not properly closing. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated drainage pipe through the levee, 17.5 feet below the crown. Flap gate is located on the waterside (WS) slope. (24-inch pipe [HLM 0.78] authorized under Automatic Board Order (ABO) issued as Permit No. 10327 - Heidrick). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 47+00)] FS Date: 5/14/2015 1:36:52 PM					

LM Start	0.83	Rating **	A/W	Issue No.	45 (cont)
LM End	0.83	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_45286_22464.jpg



Waterside view- concrete headwall and CM pipe

Photo 2 of 3 : UCIP_SP_2020_45286_22460.jpg



Waterside view- overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	0.83	Rating **	A/W	Issue No.	45 (cont)	
LM End	0.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.597813 °		38.597813 °
				-121.739636 °		-121.739636 °
DWR ID	534					

Photo 3 of 3 : UCIP_SP_2020_45286_22461.jpg



Waterside view- CM pipe and flap gate.

LM Start	1.11	Rating **	A/W	Issue No.	23
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.594508 °	38.594508 °
				-121.736612 °	-121.736612 °
DWR ID	DWR_ST0012_02_f _ 2019_23				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Minor rills are located on the waterside slope.					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.21	Rating **	A/W	Issue No.	46
LM End	1.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.593390 °	38.593390 °
				-121.735600 °	-121.735600 °
DWR ID	536				
Comment Code					
Inspector Comment					
DS_ID:536 FS_ID:13725 EP_NO: 10331 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/20/2012 Landside- upper corner of headwall was chipped off. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 1.15] authorized under Automatic Board Order (ABO) issued as Permit No. 10331, 1974 - Lavezzo). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 1 (Station 66+98)] FS Date: 5/24/2013 8:22:08 AM					

Photo 1 of 3 : UCIP_SP_2020_13725_22470.jpg



Waterside view- flap gate and CM pipe

LM Start	1.21	Rating **	A/W	Issue No.	46 (cont)
LM End	1.21	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_13725_22469.jpg



Landside view- concrete headwall and pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.21	Rating **	A/W	Issue No.	46 (cont)
LM End	1.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.593390 °	38.593390 °
				-121.735600 °	-121.735600 °
DWR ID	536				

Photo 3 of 3 : UCIP_SP_2020_13725_22468.jpg



Landside view- concrete headwall corner chipped off

LM Start	1.40	Rating **	A/W	Issue No.	24
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.591092 °	38.591092 °
				-121.733471 °	-121.733471 °
DWR ID	DWR_ST0012_02_f_2019_24				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on the waterside slope and toe road. Recommend monitoring.					

Photo 1 of 1 : SP_2020_ST0012_296_24_20200409_00050.jpg



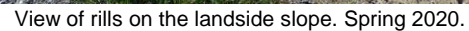
View of erosion within the waterside toe road. Spring 2020.

LM Start	1.43	Rating **	A/W	Issue No.	25
LM End	1.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.590883 °	38.590883 °
				-121.733182 °	-121.733182 °
DWR ID	DWR_ST0012_02_f_2019_25				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on the waterside toe road. Recommend monitoring.					

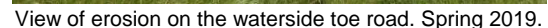
No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Willow Slough Bypass



No Photos



Sacramento Maintenance Yard Willow Slough Bypass

View of erosion on waterside toe road. Spring 2020.

No Photos

View of erosion on waterside toe road. Spring 2020.

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	2.92	Rating **	M	Issue No.	30
LM End	2.92	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589672 °	38.589672 °
				-121.705929 °	-121.705929 °
DWR ID	DWR_ST0012_02_s_2019_30				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
There is erosion on the waterside toe road.					

Photo 1 of 1 : SP_2020_ST0012_296_30_20200409_00053.jpg



View of erosion within the waterside toe road. Spring 2020.

LM Start	2.97	Rating **	A/W	Issue No.	48
LM End	2.97	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589680 °	38.589680 °
				-121.705040 °	-121.705040 °
DWR ID	538				
Comment Code					
Inspector Comment					
DS_ID:538 FS_ID:45291 EP_NO: 10328 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - good/clear, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 2.90] authorized under Automatic Board Order (ABO) issued as Permit No. 10328, 1974 - Heidrick). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 2 (Station 158+69)] FS Date: 5/14/2015 1:40:56 PM					

Photo 1 of 3 : UCIP_SP_2020_45291_22479.jpg



Landside view- concrete headwall and pipe (temporarily closed used wooden planks).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	2.97	Rating **	A/W	Issue No.	48 (cont)
LM End	2.97	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589680 °	38.589680 °
				-121.705040 °	-121.705040 °
DWR ID	538				

Photo 2 of 3 : UCIP_SP_2020_45291_22478.jpg



Landside view- concrete headwall

LM Start	2.97	Rating **	A/W	Issue No.	48 (cont)
LM End	2.97	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_45291_22477.jpg



Landside view- open ditch.

LM Start	3.24	Rating **	A/W	Issue No.	36
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589632 °	38.589632 °
				-121.700024 °	-121.700024 °
DWR ID	DWR_ST0012_02_s_2020_36				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on the waterside toe road. Recommend monitoring.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	3.32	Rating **	A/W	Issue No.	21
LM End	3.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.589634 °	38.589634 °	
			-121.698570 °	-121.698570 °	
DWR ID	DWR_ST0012_02_f_2019_21				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on the waterside toe road. Recommend monitoring.					

No Photos

LM Start	3.36	Rating **	A/W	Issue No.	37
LM End	3.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.589609 °	38.589609 °	
			-121.697674 °	-121.697674 °	
DWR ID	DWR_ST0012_02_s_2020_37				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on waterside toe road. Recommend monitoring.					

No Photos

LM Start	3.47	Rating **	A/W	Issue No.	38
LM End	3.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.589591 °	38.589591 °	
			-121.695748 °	-121.695748 °	
DWR ID	DWR_ST0012_02_s_2020_38				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on waterside toe road. Recommend monitoring.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	3.56	Rating **	A/W	Issue No.	22
LM End	3.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589596 °	38.589596 °
				-121.693967 °	-121.693967 °
DWR ID	DWR_ST0012_02_f _ 2019_22				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on the waterside toe road. Recommend monitoring.					

No Photos

LM Start	3.60	Rating **	C	Issue No.	6
LM End	3.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.589552 °	38.589552 °
				-121.693408 °	-121.693408 °
DWR ID	DWR_ST0012_02_f _ 2017_6				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There is a burrow hole on the landside slope near access ramp.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	3.61	Rating **	A/W	Issue No.	50
LM End	3.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589570 °	38.589570 °
				-121.693090 °	-121.693090 °
DWR ID	541				
Comment Code					
Inspector Comment					
DS_ID:541 FS_ID:45294 EP_NO: 10335 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 09/20/2012 Landside view photos are missing. Daylight pipe is a steel pipe. The pipe through the levee may be a CMP. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 1 of 2. 42-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate located on the waterside (WS) end. 42-inch pipe sleeved through a 48-inch corrugated metal pipe (CMP). (two 48-inch pipes [HLM 3.54] authorized under Automatic Board Order (ABO) issued as Permit No. 10335, 1974 - Snyder). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, (Station 192+80)] FS Date: 5/14/2015 1:41:55 PM					

LM Start	3.61	Rating **	A/W	Issue No.	50 (cont)
LM End	3.61	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_45294_22789.jpg



Waterside overview- middle 42-inch pipe.

Photo 2 of 3 : UCIP_SP_2020_45294_22788.jpg



Waterside overview-

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	3.61	Rating **	A/W	Issue No.	50 (cont)	
LM End	3.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.589570 °		38.589570 °
				-121.693090 °		-121.693090 °
DWR ID	541					

Photo 3 of 3 : UCIP_SP_2020_45294_22792.jpg



Waterside view- 42-inch steel pipe and flap gate.

LM Start	3.61	Rating **	A/W	Issue No.	51
LM End	3.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589567 °	38.589567 °
				-121.693070 °	-121.693070 °
DWR ID	17729				

Comment Code

Inspector Comment

DS_ID:17729
 FS_ID:45295
 EP_NO: 10335
 Repair Type: No Action Needed
 Crossing Status: Found
 UCIP Comments: 05/05/2017 48-inch pipe authorized under ABO/Permit No. 10335. Reference has been verified and this crossing is referenced correctly. No records were found to support the additional of the 42-inch through the 48-inch pipe. (DWR UCIP - O. Magana) 09/20/2012 Daylight pipe looks like steel pipe. The pipe through the levee may be a CMP. Needs a landside view photos which is missing. This pipe may be a 42-inch pipe mentioned in ABO 10333. (DWR UCIP - P. Amaty)

FIELD_STRUCT_DESC: 2 of 2. 42-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate located on the waterside (WS) end. 42-inch pipe sleeved through a 48-inch corrugated metal pipe (CMP). (two 48-inch pipes [HLM 3.54] authorized under Automatic Board Order (ABO) issued as Permit No. 10335, 1974 - Snyder). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, (Station 192+88)]
 FS Date: 5/14/2015 1:42:08 PM

Photo 1 of 3 : UCIP_SP_2020_45295_22794.jpg



Waterside overview- far right 42-inch pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	3.61	Rating **	A/W	Issue No.	51 (cont)
LM End	3.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589567 °	38.589567 °
				-121.693070 °	-121.693070 °
DWR ID	17729				

Photo 2 of 3 : UCIP_SP_2020_45295_22793.jpg



Waterside view- 42-inch steel pipe and flap gate (right).

LM Start	3.61	Rating **	A/W	Issue No.	51 (cont)
LM End	3.61	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_45295_22796.jpg



Waterside overview- outlet structure.

LM Start	3.79	Rating **	A/W	Issue No.	39
LM End	3.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589550 °	38.589550 °
				-121.689881 °	-121.689881 °
DWR ID	DWR_ST0012_02_s_2020_39				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on waterside toe road. Recommend monitoring.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	4.10	Rating **	A/W	Issue No.	40
LM End	4.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589528 °	38.589528 °
				-121.684161 °	-121.684161 °
DWR ID	DWR_ST0012_02_s _ 2020_40				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on waterside toe road. Recommend monitoring.					

No Photos

LM Start	4.19	Rating **	A/W	Issue No.	41
LM End	4.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589529 °	38.589529 °
				-121.682353 °	-121.682353 °
DWR ID	DWR_ST0012_02_s _ 2020_41				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on waterside toe road. Recommend monitoring.					

No Photos

LM Start	4.22	Rating **	A/W	Issue No.	42
LM End	4.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589531 °	38.589531 °
				-121.681885 °	-121.681885 °
DWR ID	DWR_ST0012_02_s _ 2020_42				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on waterside toe road. Recommend monitoring.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	4.29	Rating **	A/W	Issue No.	52	
LM End	4.29	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.589530 °	38.589530 °	
				-121.680560 °	-121.680560 °	
DWR ID	545					
Comment Code						
Inspector Comment						
DS_ID:545 FS_ID:45298 EP_NO: 10334 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS - good/clear, LS - good/clear needs to be cut and sprayed, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 05/24/2013 Rodent activities on headwall is far from the levee. Inlet is across city of davis drainage ditch. Inlet was cleaned last fall. see picture. (DWR Sacramento Yard - C. Lund) 09/20/2012 May need video inspection as seen rodent activities on headwall. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 4.21] authorized under Automatic Board Order (ABO) issued as Permit No. 10334 - Rhinehart) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 2 (Station 228+46)] FS Date: 5/14/2015 1:43:00 PM						

LM Start	4.29	Rating **	A/W	Issue No.	52 (cont)
LM End	4.29	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_45298_22805.jpg



Waterside overview- pipe and flap gate with dense vegetation.

Photo 2 of 3 : UCIP_SP_2020_45298_22804.jpg



Landside overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Willow Slough Bypass

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	4.59	Rating **	M	Issue No.	53 (cont)
LM End	4.59	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589575 °	38.589575 °
				-121.674950 °	-121.674950 °
DWR ID	546				

Photo 2 of 3 : UCIP_SP_2020_45285_22811.jpg



Landside view- pipe and headwall.

LM Start	4.59	Rating **	M	Issue No.	53 (cont)
LM End	4.59	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_45285_22810.jpg



Landside view- soil and debris on mouth of the inlet pipe.

LM Start	4.63	Rating **	M	Issue No.	43
LM End	6.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.589580 °	38.588997 °
				-121.674261 °	-121.647792 °
DWR ID	DWR_ST0012_02_s_2020_43				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	5.01	Rating **	A/W	Issue No.	33
LM End	5.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.589573 °	38.589573 °
				-121.667315 °	-121.667315 °
DWR ID	DWR_ST0012_02_f_2019_33				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There is erosion on the waterside toe road. Recommend monitoring.					

No Photos

LM Start	5.05	Rating **	A/W	Issue No.	54
LM End	5.05	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589560 °	38.589560 °
				-121.666540 °	-121.666540 °
DWR ID	548				
Comment Code					
Inspector Comment					
DS_ID:548					
FS_ID:45301					
EP_NO: 10321					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: 04/12/2017 WS - good/clear, inspected by JK, RF.					
(DWR Sacramento Yard - C. Lund)					
FIELD_STRUCT_DESC: 24-inch drainage pipe through the levee, 17					
feet below the crown. Flap gate is located on the waterside (WS) end.					
(24-inch pipe [HLM 4.97] authorized under Automatic Board Order					
(ABO) issued as Permit No. 10321, 1974 - Campbell) [Additional					
Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M					
Manual Unit 120, Willow Slough Channel Relocation and Levee					
Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station					
268+57)]					
FS Date: 5/14/2015 1:44:17 PM					

Photo 1 of 3 : UCIP_SP_2020_45301_22845.jpg



Landside view- overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	5.05	Rating **	A/W	Issue No.	54 (cont)
LM End	5.05	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589560 °	38.589560 °
				-121.666540 °	-121.666540 °
DWR ID	548				

Photo 2 of 3 : UCIP_SP_2020_45301_22844.jpg



Waterside view- overview

LM Start	5.05	Rating **	A/W	Issue No.	54 (cont)
LM End	5.05	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_45301_22846.jpg



Waterside view- pipe and flap gate. Water was running in the pipe during the survey.

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	5.40	Rating **	A/W	Issue No.	55
LM End	5.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589540 °	38.589540 °
				-121.660070 °	-121.660070 °
DWR ID	549				
Comment Code					
Inspector Comment					
DS_ID:549 FS_ID:45302 EP_NO: 10322 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 17.5 feet below the crown. Flap gate is located on the waterside (WS) end. Concrete headwall with wing walls is located on WS. (24-inch pipe [HLM 5.32] authorized under Automatic Board Order (ABO) issued as Permit No. 10322, 1974 - Chew). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 287+19)] FS Date: 5/14/2015 1:44:30 PM					

LM Start	5.40	Rating **	A/W	Issue No.	55 (cont)
LM End	5.40	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_45302_22849.jpg



Landside view-overview

Photo 2 of 3 : UCIP_SP_2020_45302_22848.jpg



Waterside view-pipe and flap gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	5.40	Rating **	A/W	Issue No.	55 (cont)	
LM End	5.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.589540 °	38.589540 °	
				-121.660070 °	-121.660070 °	
DWR ID	549					

Photo 3 of 3 : UCIP_SP_2020_45302_22847.jpg



Waterside view- overview

LM Start	5.57	Rating **	A/W	Issue No.	57
LM End	5.57	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589520 °	38.589520 °
				-121.656860 °	-121.656860 °
DWR ID	551				

Comment Code

Inspector Comment

DS_ID:551
 FS_ID:45305
 EP_NO: 10325
 Repair Type: No Action Needed
 Crossing Status: Found
 UCIP Comments: 04/12/2017 WS & LS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund)
 09/20/2012 Slide gate on landside of the levee over the field. (DWR UCIP - P. Amatya)
 FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 18 feet below the crown. Flap gate is located on the waterside (WS) end. (24-inch pipe [HLM 5.50] authorized under Automatic Board Order (ABO) issued as Permit No. 10325, 1974 - Ferris). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 296+34)]
 FS Date: 5/14/2015 1:45:21 PM

Photo 1 of 3 : UCIP_SP_2020_45305_22861.jpg



Landside view- inlet structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	5.57	Rating **	A/W	Issue No.	57 (cont)
LM End	5.57	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589520 °	38.589520 °
				-121.656860 °	-121.656860 °
DWR ID	551				

Photo 2 of 3 : UCIP_SP_2020_45305_22860.jpg



Landside view- concrete headwall and slide gate.

LM Start	5.57	Rating **	A/W	Issue No.	57 (cont)
LM End	5.57	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_45305_22859.jpg



Waterside view- overview.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	5.59	Rating **	A/W	Issue No.	58	
LM End	5.59	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.589520 °	38.589520 °	
				-121.656550 °	-121.656550 °	
DWR ID	552					
Comment Code						
Inspector Comment						
DS_ID:552 FS_ID:45306 EP_NO: 10338 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) 09/20/2012 Open inlet over the field. (DWR UCIP - P. Amatya) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate is located on the waterside (WS) end. (36-inch pipe [HLM 5.51] authorized under Automatic Board Order (ABO) issued as Permit No. 10325, 1974 - Ferris) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 4 (Station 297+26)] FS Date: 5/14/2015 1:45:32 PM						

LM Start	5.59	Rating **	A/W	Issue No.	58 (cont)
LM End	5.59	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_45306_22873.jpg



Waterside view- overview.

Photo 2 of 3 : UCIP_SP_2020_45306_22872.jpg



Waterside view- pipe and flap gate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	6.07	Rating **	A/W	Issue No.	59 (cont)
LM End	6.07	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.589040 °	38.589040 °
				-121.647870 °	-121.647870 °
DWR ID	553				

Photo 2 of 3 : UCIP_SP_2020_45307_22868.jpg



Waterside view- outlet structure under the water.

LM Start	6.07	Rating **	A/W	Issue No.	59 (cont)
LM End	6.07	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_45307_22870.jpg



Landsideside view- overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.46	04/07/2020 04/07/2020	Zach Jojola

LM Start	7.01	Rating **	A/W	Issue No.	60	
LM End	7.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.575750 °	38.575750 °	
				-121.646420 °	-121.646420 °	
DWR ID	555					
Comment Code						
Inspector Comment						
DS_ID:555 FS_ID:45309 EP_NO: 10338 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 04/12/2017 WS & LS - submerged in water, inspected by JK, RF. (DWR Sacramento Yard - C. Lund) FIELD_STRUCT_DESC: 42-inch corrugated metal drainage pipe through the levee, 23.5 feet below the crown. Flap gate is located on the waterside (WS) end. Concrete headwall with wing walls is located on the landside (LS). (42-inch pipe [HLM 6.92] authorized under Automatic Board Order (ABO) issued as Permit No. 10338, 1974 - Woodland Farms, Ltd) [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual Unit 120, Willow Slough Channel Relocation and Levee Construction, February 1947, Drawing No. 50-4-2281 Sheet 5 (Station 374+00)] FS Date: 5/14/2015 1:46:34 PM						

LM Start	7.01	Rating **	A/W	Issue No.	60 (cont)
LM End	7.01	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP_SP_2020_45309_22878.jpg



Landside view- Wing wall and pipe

Photo 2 of 2 : UCIP_SP_2020_45309_22877.jpg



Waterside view- pipe and flap gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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